

ABSTRACT

An integrated dynamic memory includes memory cells which are combined to form individual independently addressable units, and a control circuit for controlling a refresh mode for the memory cells. The memory cells can have their memory cell content refreshed. The control circuit is designed such that one or more units of memory
5 cells can be subject to a refresh mode in parallel in a refresh cycle. The control circuit sets a number of memory cell units, which are to be refreshed in parallel in a refresh cycle based on a temperature reference value. A maximum possible operating temperature for a memory chip can be increased without additional restrictions on memory access.